PATENT COOPERATION TRE

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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

Hammett, Audrey G.C. AMERSHAM PLC Amersham Place Little Chalfont Buckinghamshire HP7 9NA GRANĎE BRETAGNE

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 71.1)

Date of mailing (day/month/year)

16.06.2004

Applicant's or agent's file reference

PH0249-PCT

IMPORTANT NOTIFICATION

International application No.

PCT/GB 03/03078

International filing date (day/month/year)

16.07.2003

Priority date (day/month/year)

17.07.2002

Applicant

IMAGING RESEARCH SOLUTIONS LTD

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims. DUE DATE:

> FORMALITIES: PAT. OFF:

Name and mailing address of the international preliminary examining authority:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Parriche, S

Authorized Officer

ON DB:

Tel. +49 89 2399-7890 CASE NO:

- P CT



(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH0249-PCT  International application No. PCT/GB 03/03078			FOR FURTHER ACTION			n of Transmittal of International amination Report (Form PCT/IPEA/416)
			International filing date (day/mo	nth/y	ear)	Priority date (day/month/year) 17.07.2002
Interna C07C			r both national classification and IPC			
Applica IMAG		RESEARCH SOLUTIO	NS LTD			
1.	This ir Autho	nternational preliminary ex rity and is transmitted to the	camination report has been prepared applicant according to Article	ared 36.	by this Inter	national Preliminary Examining
2. 1	This F	EPORT consists of a tota	ll of 6 sheets, including this cove	r sh	eet.	
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
7	These	annexes consist of a tota	l of sheets.			
3. Т	Γhis re	eport contains indications	relating to the following items:			
ļ	٥	Basis of the opinion	·			
- 1	_	_				
11	II 🛭		f opinion with regard to novelty, i	nvei	ntive step ar	nd industrial applicability
ľ	V [				inivo otop ai	a mademar applicability
V		Reasoned statement		d to	novelty, inv	entive step or industrial applicability;
٧	/I [	Certain documents c	ited			
٧	/II 🗆	Certain defects in the	international application			
٧	/III C	Certain observations	on the international application			•
Date of submission of the demand			Date of	com	npletion of this	report
21.01.2004			16.06	.200	04	
Name a prelimin	Name and mailing address of the international preliminary examining authority:			zed (	Officer	and the contract of the contra
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			Jardo	n Al	varez, J	, 11110A.
				one 1	No. +49 89 23	99-8325 ************************************

International application No.

PCT/GB 03/03078

I. Basi	s of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	scription, Pages						
	1-1	4	as originally filed					
	Cla	ims, Numbers						
	1-8		as originally filed					
	Dra	awings, Sheets						
	1/1		as originally filed					
2.	Wit lan	h regard to the <b>lang</b> u guage in which the in	uage, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.					
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).					
3.	With inte	h regard to any <b>nucl</b> e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	ernational application in written form.					
		filed together with th	e international application in computer readable form.					
		furnished subsequer	ntly to this Authority in written form.					
		☐ furnished subsequently to this Authority in computer readable form.						
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

International application No.

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5. 🗆		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sheet conta report.)	aining .	such amendı	ments must be referred to under item 1 and annexed to this			
6.	Add	dditional observations, if necessary:						
III.	Nor	n-establishment of opinion w	ith re	gard to nove	elty, inventive step and industrial applicability			
1.		questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ous), or to be industrially applicable have not been examined in respect of:						
		the entire international application,						
	$\boxtimes$	claims Nos. 8 with respect to industrial applicability						
		because:						
	Ø	the said international application, or the said claims Nos. 8 relate to the following subject matter which does not require an international preliminary examination (specify):						
	see separate sheet							
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
		no international search report has been established for the said claims Nos.						
	or a	meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative structions:						
		the written form has not been furnished or does not comply with the Standard.						
		the computer readable form has not been furnished or does not comply with the Standard.						
٧.	. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	State	ement						
	Nov	elty (N)	Yes: No:	Claims Claims	1-8			
	Inve	ntive step (IS)	Yes: No:	Claims Claims	1-8			
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-7			

2. Citations and explanations

International application No.

PCT/GB 03/03078

see separate sheet

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 8 relates to subject-matter considered by this Authority to be covered by the 1. provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(i) PCT).

### Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1: WO - A - 94 27591

D2: A.R. Gibbs et al., J. Label Compd Radiopharm 2002, 45, 395-400

- 1. The subject-matter of the claims, although novel (Article 33(2) PCT), does not involve an inventive step (Article 33(3) PCT).
- 1.1. Document D1 discloses guanidine derivatives (see claims 1 13) and methods for determining its binding activity to NMDA receptors as well as in vitro and in vivo binding activity diagnostic methods using radiolabelled derivatives of said guanidine compounds (see page 33, line 9 - page 34, line 2 and claim 24). Document D2 exemplifies a tritium labelled compound (see page 397, compound 3) of those disclosed in D1 which is also suitable for in vitro and in vivo assessment of NMDA receptor function (see D2, page 398, first paragraph).

The subject-matter of the present application relates to further guanidine compounds falling within the scope of those disclosed in D1. Thus the compounds of claim 1 are labelled with <sup>11</sup>C or a <sup>18</sup>F which are not explicitly disclosed in D1 but fall within the general formula therein described. The compounds of claim 4 relate to a sub-group of compounds not explicitly disclosed in D1 and can also been considered as novel (Article 33(2) PCT).

1.2. The Applicant has proposed certain compounds selected out from the disclosure of D1 for the same use as therein disclosed. It was then to be expected for the

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**EXAMINATION REPORT - SEPARATE SHEET** 

skilled person that they would have the same use. Before an inventive step could be recognized therefore, it will be necessary for the Applicant to show that the selected compounds show unexpected advantages when compared to those disclosed in D1/D2.

For these reasons, the subject-matter of claims 1 to 8 does not involve an inventive step (Article 33(3) PCT).

2. For the assessment of the present claim 8 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.